Vidas, Arrett & Steinkraus	Atty. Do	cket No		S40.2-11278-US01							
Utility Patent Application	First Inventor			KIM, Ig Saeng, et al.							
Transmittal	Title: Heat Driven Acoustic C										
	Cryocooler										
	Express Mail Label No.			EL 992794581 US							
Application Elements	Addres	s To:		Stop Patent Application							
				missioner for Patents							
				Box 1450							
	Alexa			ndria, VA 22313-1450							
1. A Fee Transmittal Form				Pages 1							
	☐ Check Included										
2. Applicant claims small entity state	us	44 1 11		Pages 18							
	Specification (including 0 pg cover sheet, 14 pg description,										
3 pg claims and 1 pg abstract)				Dages 6							
4. Drawings 5. Oath or Declaration				Pages 6 Pages							
a. ☐ Newly executed (original or	r conv)			rayes							
		R 1 63(d)									
<ul> <li>b. ☐ Copy from a prior application (37 CFR 1.63(d)         (for continuation/divisional with Box 19 completed)</li> </ul>											
i. ☐ Deletion of Inventor(s) – s				Pages							
deleting inventors named in the p				9							
6. Application Data Sheet	•			Pages 5							
7. Assignment Papers (cover sheet	& docun	nents and check)		Pages							
Previously recorded on	, Reel	, Frames		-							
8. Power of Attorney	Pages										
☐ 37 C.F.R. 3.73(b) Statement (	Pages										
9. English Translation Document				Pages							
10. Information Disclosure Statemen				Pages							
Copies of Citations ( references)											
11.	Pages Pages 1										
13. Certified Copy of Priority Docume	Pages										
14. Nonpublication Request	Pages										
15. ⊠ Constructive Petition	Pages 1										
16. Limited Authorization	Pages										
17. 🛛 VAS Utility Patent Application Tra	Pages 1										
18. Other	Pages										
19. If a CONTINUING APPLICATION, chec			ply the	requisite information below and							
in a preliminary amendment or in an Applica	ation Dat	a Sheet									
☐ Continuation ☐ Divisional ☐ Cont	tinuation-	in-part Of prior	r applic	cation no.							
Drice Application Information, Countries Countries A 111 /											
Prior Application Information: Examiner	Gio	up Art Unit									
For CONTINUATION OR DIVISIONAL APF	S only: 1	The entire disclosu	re of th	ne prior application, from an eath							
or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference.											
20. TOTAL NUMBER OF PAGES 33		r									
21. CORRESPONDENCE ADDRESS											
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		NUMBER LABEL	_ ABO	VE							
Nam Scott Q. Vidas, R g. No. 30,812	<u> </u>										
Signature	1			Date 8/18/2003							
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10/643239 10/643239 10/818/03

## **FEE TRANSMITTAL** for FY 2003

Patent fees are subject to annual revision.

Name (Print/Type)

Signature

Scott Q.

Complete if Known **Application Number** Not Yet Assigned Filing Date Concurrently Herewith First Named Inventor KIM, Ig Sarng, et al. Examiner Name Not Yet Assigned

j								Examiner Name			INOT	Not Yet Assigned		
	Applicant claims small entity status. See CFR 1.27							Art Unit			Not	Not Yet Assigned		
	TOTAL AMOUNT OF PAYMENT (\$) 750.00								Attorney Docket No. S40.2-11278-US01					
	METHOD OF PAYMENT (check all that apply)						at apply)	FEE CALCULATION (continued)						
ſ	☑ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None							3. ADDITIONAL FEES						
ı	Deposit Account:							Large Fee	Entity	Small	Entity			
ı	Deposit Account Number: 22-0350								Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid	
ı	Deposit Account Name: Vidas, Arrett & Steinkraus							1051	130	2051	65	Surcharge-late filing fee oath		
The Commissioner is authorized to: (check all that apply)								1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet		
ı	☐ Charge the fee(s) indicated below ☐ Credit any overpayments								130	1053	130	Non-English specification		
I	Charge any additional fee(s) during the pendency of this application								2,520	1812	2,520	For filing a request for ex parte reexamination		
l	Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.								920*	1804	920*	Requesting publication of SIR prior to Examiner action		
	FEE CALCULATION								1,840*	1805	1,840*	Requesting publication of SIR after Examiner action		
I	1. BASIC FILING FEE							1251	110	2251	55	Extension for reply within first month		
I	Large	Entity	Small	Entity				1252	410	2252	205	Extension for reply within second month		
L	Fee	Fee	Fee	Fee	Fee Des	cription	Fee Paid	1253	930	2253	465	Extension for reply within third month		
	Code	(\$)	Code	(\$)	-			1254	1,450	2254	725	Extension for reply within fourth month		
ı	1001 1002	750 330	2001 2002	375 165	Utility fi		\$750.00	1255	1,970	2255	985	Extension for reply within fifth month		
ı	1002	520	2002	260	Design i Plant fili			1401 1402	320 320	2401 2402	160 160	Notice of Appeal		
ı	1004	750	2004	375		filing fee		1402	280	2402	140	Filing a brief in support of an appeal Request for oral hearing		
l	1005	160	2005	80		nal filing fee		1451	1,510	1451	1,510	Petition to institute a public use proceeding		
L	SUBTOTAL (1) (\$) 750.00								110	2452	55	Petition to revive - unavoidable		
ı	2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE								1,300	2453	650	Petition to revive - unintentional		
ľ	m 1			Extra Clain		from below	Fee Paid	1501	1,300	2501	650	Utility issue fee (or reissue)		
I	Total Claims	11	-20**	-	l x		= 0	1502	470	2502	235	Design issue fee		
l	Independent Claims	`		-	x		= 0	1503	630	2503	315	Plant issue fee		
ı	Multiple De	•	o	_			] =	1460	130	1460	130	Petitions to the Commissioner		
ı	Large Fee	Entity Fee	Small Fee	Entity Fee	Fee Des	relation		1807	50	1807	50	Processing fee under 37 CFR 1.17(q)		
L	Code	(\$)	Code	(\$)	ree Des	ripuon		1806	180	1806	180	Submission of Information Disclosure Stmt		
ſ	1202	18	2202	9	Claims i	n excess of 20		8021	40	8021	40	Recording of each patent assignment per property (times number of properties)		
l	1201	84	2201	42	-	lent claims in		1809	750	2809	375	Filing a submission after final rejection (37 CFR 1.129(a))		
۱	1203	280	2203	140	•	-	im, if not paid	1810	750	2810	375	For each additional invention to be examined (37 CFR 1.129(b))		
l	1204	84	2204	42	original	** Reissue independent claims over original patent			750	2801	375	Request for Continued Examination (RCE)		
	1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent							1802	900	1802	900	Request for expedited examination of a design application		
ı	SUBTOTAL (2) (\$) -0-									Other fee (specify)				
L											(\$)			
SUBMITTED BY Complete (if applicable)														
г	N.T.		Complete (ij applicable)											

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30,812

Telephone 952-563-3000

08/18/2003

Date

Registration No.

be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

KIM, Ig Saeng, et al.

**Application No.:** 

Not Yet Assigned

Filed: For:

Concurrently Herewith Heat Driven Acoustic Orifice Type Pulse Tube Cryocooler

Examiner:

Not Yet Assigned

**Group Art Unit:** 

Not Yet Assigned

Mail Stop Patent Application Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Docket No.: S40.2-11278-US01

## CONSTRUCTIVE PETITION FOR EXTENSION OF TIME AND FEE AUTHORIZATION PURSUANT TO 37 C.F.R. §1.136(a)(3)

Applicant hereby requests that the United States Patent and Trademark Office treat any concurrent or future reply requiring a petition for an extension of time pursuant to §1.136 for its timely submission as incorporating therein a petition for an extension of time for the appropriate length of time.

Applicant authorizes the Commissioner of Patents and Trademarks to charge all required extension of time fees that have not otherwise been paid to Deposit Account No. 22-0350.

Respectfully submitted,

VIDAS, ARRETT & STEINKRAUS

Date: August 18, 2003

By:

Scott Q. Vidas, Reg. No. 30,812

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Facsimile: (952) 563-3001